SECTION 11

11.21 NONPOTABLE CONDUITS:

Nonpotable conduits are 24 inch diameter and larger mains carrying either raw or reclaimed water.

It is the policy of Denver Water to design and install 24 inch diameter and larger conduits to ensure a high quality, uninterrupted, low maintenance water service system and when it is in the best interest of Denver Water. All conduits which will become part of Denver Water's nonpotable water system will be designed and constructed by Denver Water. In cases where Denver Water determines that the conduit will not be part of its system, Denver Water may allow a Nonpotable Customer to design and/or install conduits; however, Denver Water must approve the design and installation of these conduits to ensure that sound engineering and construction procedures are followed within the context of Denver Water's Engineering Standards.

Design of the conduit should proceed only after approval to design and/or construct the conduit is received from Denver Water. The concept, size, location, and any other pertinent details shall be reviewed by Denver Water prior to the submittal of plans and specifications in accordance with Denver Water's Engineering Standards.

The designing and construction of transmission mains carrying nonpotable water shall be in accordance with the nonpotable and appropriate potable sections of Denver Water's Engineering Standards and following supplementary requirements:

A. All piping in the nonpotable water system shall be identified by an integral Pantone 256U in color and an embossed or integrally stamped warning reading "CAUTION: NONPOTABLE WATER – DO NOT DRINK". The printing shall be continuous on both sides of the pipe.

   As an acceptable alternative, the ductile iron or steel pipe may be installed with a purple coating tape and cathodic protection approved by Denver Water. Identification tapes shall be black printing on a purple field and contain the warning stated above. The warning tape shall be a minimum of 3 inches wide.

   Identification tapes shall be installed on the top of the pipe longitudinally and shall be centered. The identification tape shall be continuous in its coverage of the pipe and shall be fastened to each pipe with plastic adhesive tape banded around the pipe. Taping attached to sections of pipe before placement in the trench shall have flaps sufficient for continuous coverage.

B. All valve boxes in the nonpotable water system shall be fitted with lids cast with the words "NONPOTABLE WATER". The covers shall be coated with a fusion bonded epoxy coating, Pantone 256U in color. Both the top and bottom surfaces of the lid shall be coated.

C. All valves in the nonpotable water system shall open in a counter-clockwise direction. Valves or valve operators located in vaults shall be tagged as belonging to the nonpotable water system.

D. All appurtenances located in vaults, including valves, valve operators, air-vacuum relief valves, blow-offs and meters shall be labeled as belonging to the nonpotable water system. The labels shall be inert plastic formulated for prolonged exposure and shall be prepared with black printing on a white field having the words “NONPOTABLE WATER FACILITIES”. The minimum height of the letters shall be one-half inch. The labels shall be attached with heavy duty nylon fasteners.

E. All manhole covers in the nonpotable water system shall be fitted with covers cast with the words “NONPOTABLE WATER”, the covers shall be coated with a fusion bonded epoxy coating, Pantone 256U in color.

The Nonpotable Customer shall pay all costs in the design and construction of conduits including those incurred by Denver Water for reviewing, inspection, testing of materials, and other Denver Water services.